

Figure 1

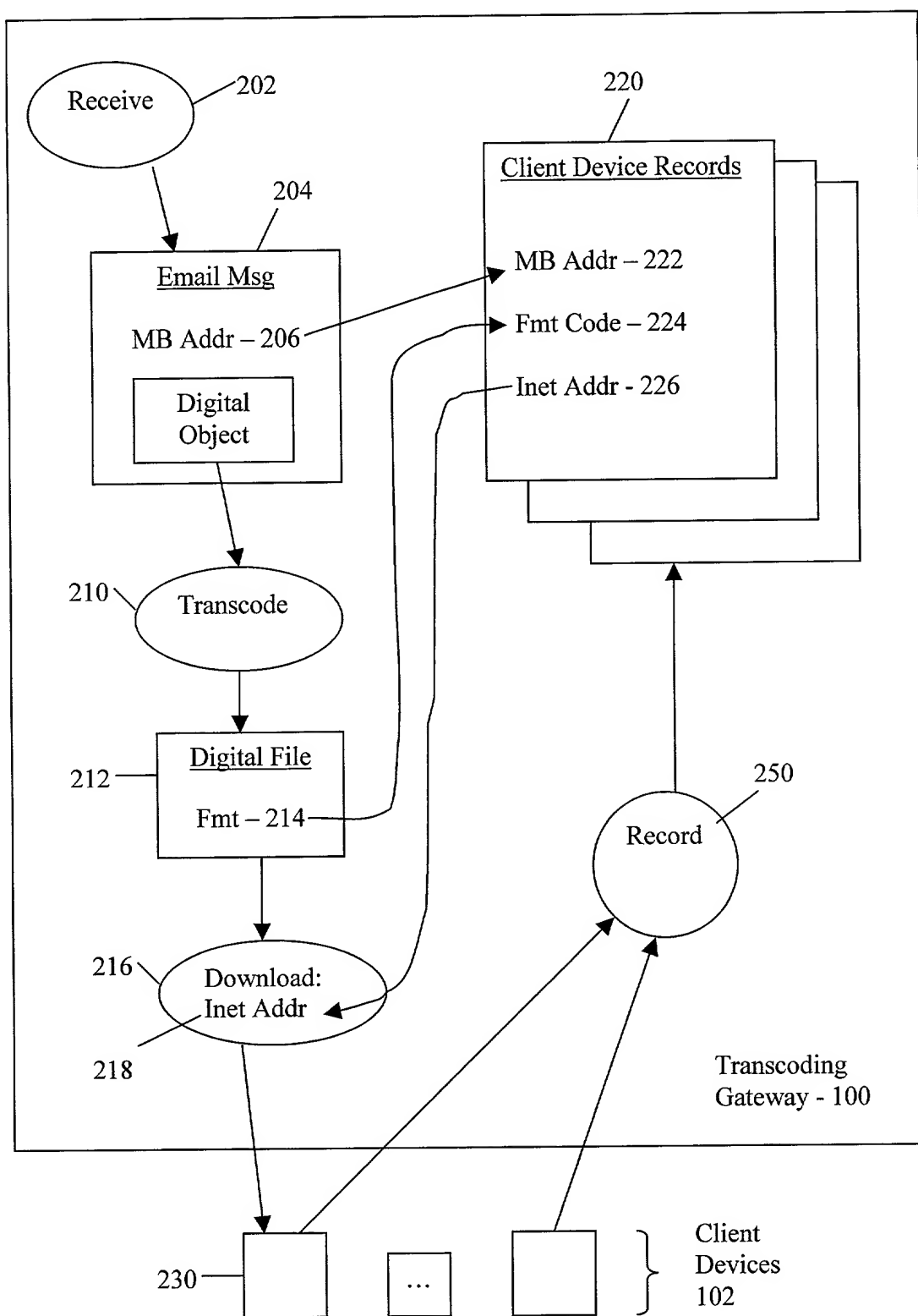


Figure 1a

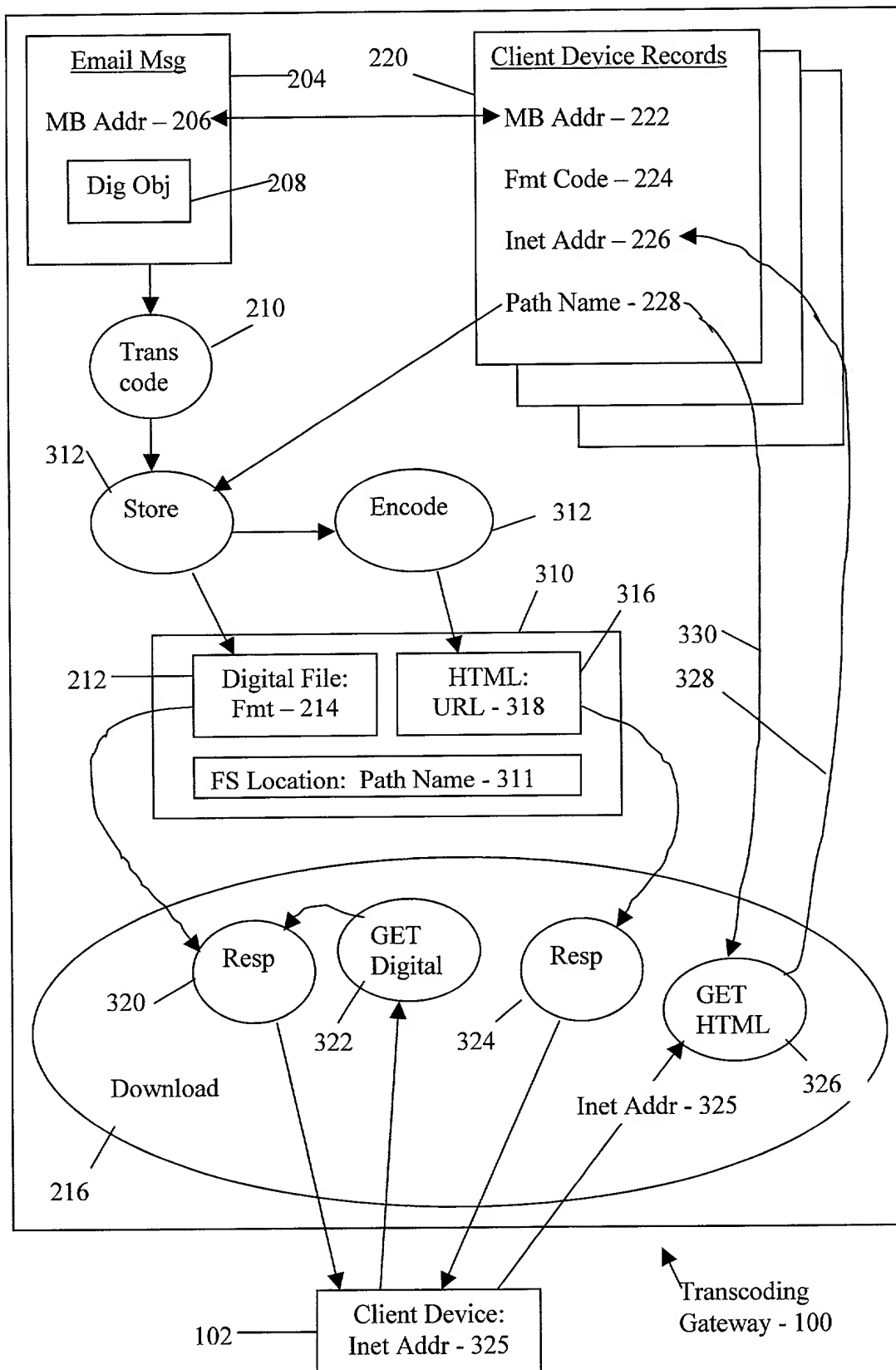


Figure 1b

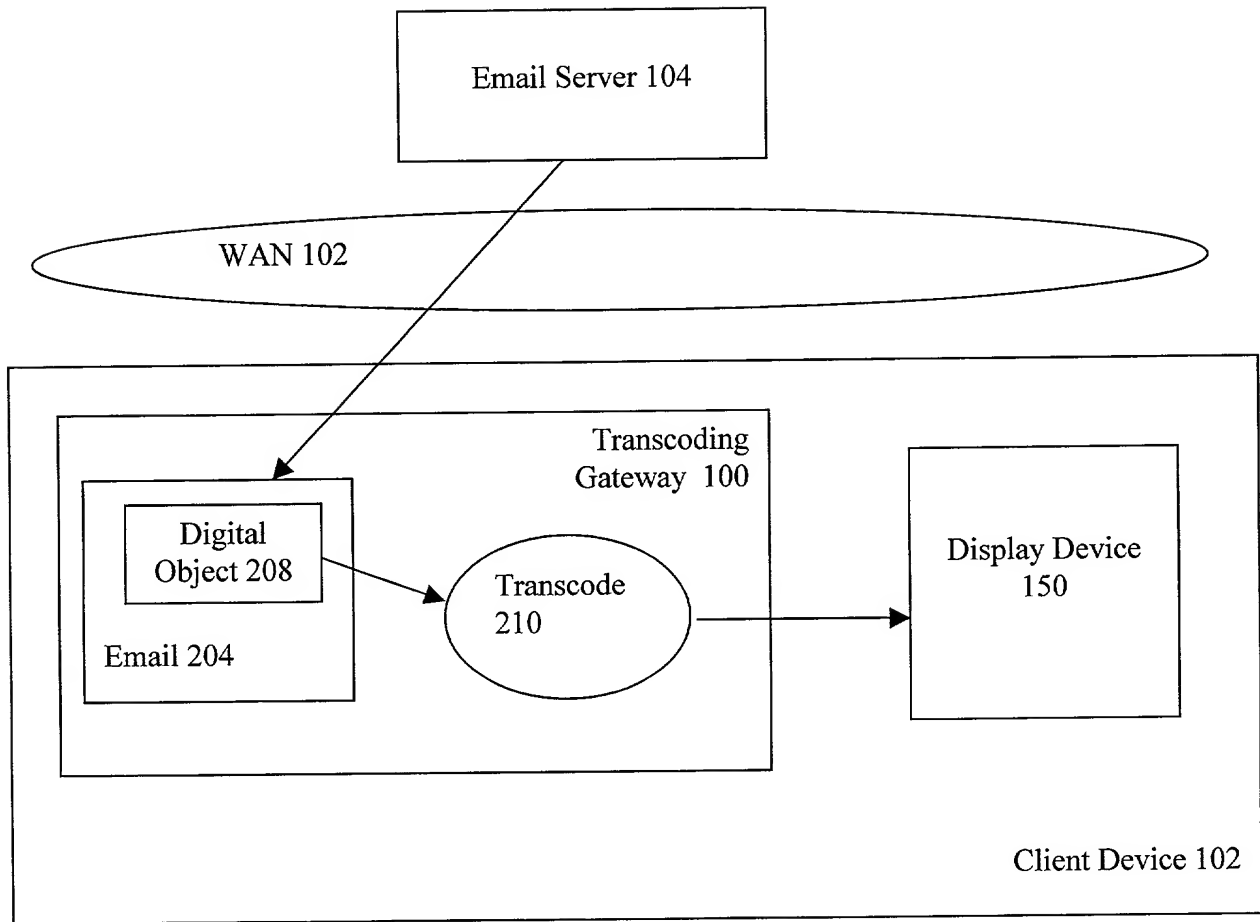


Figure 2

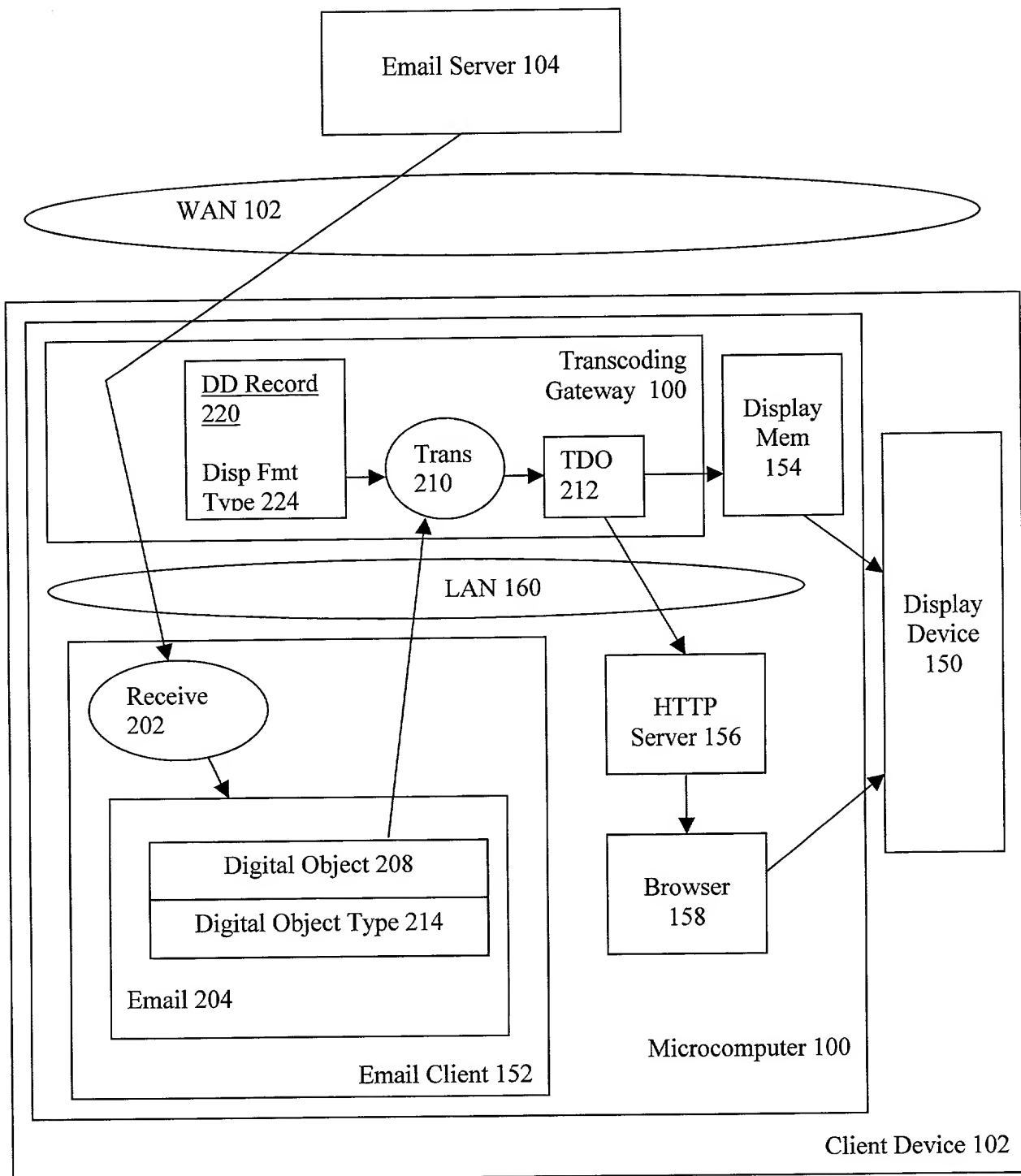


Figure 3

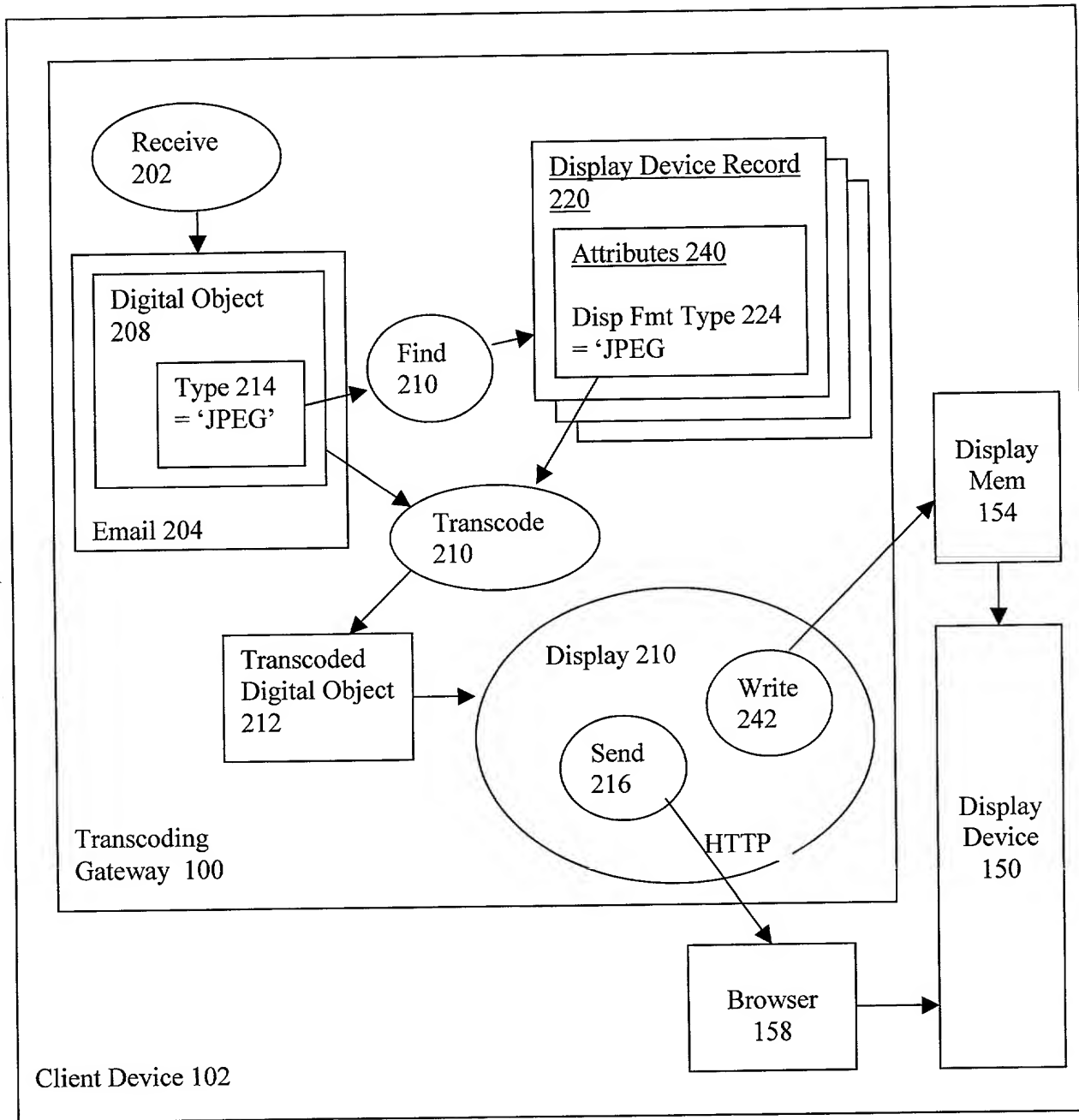


Figure 4

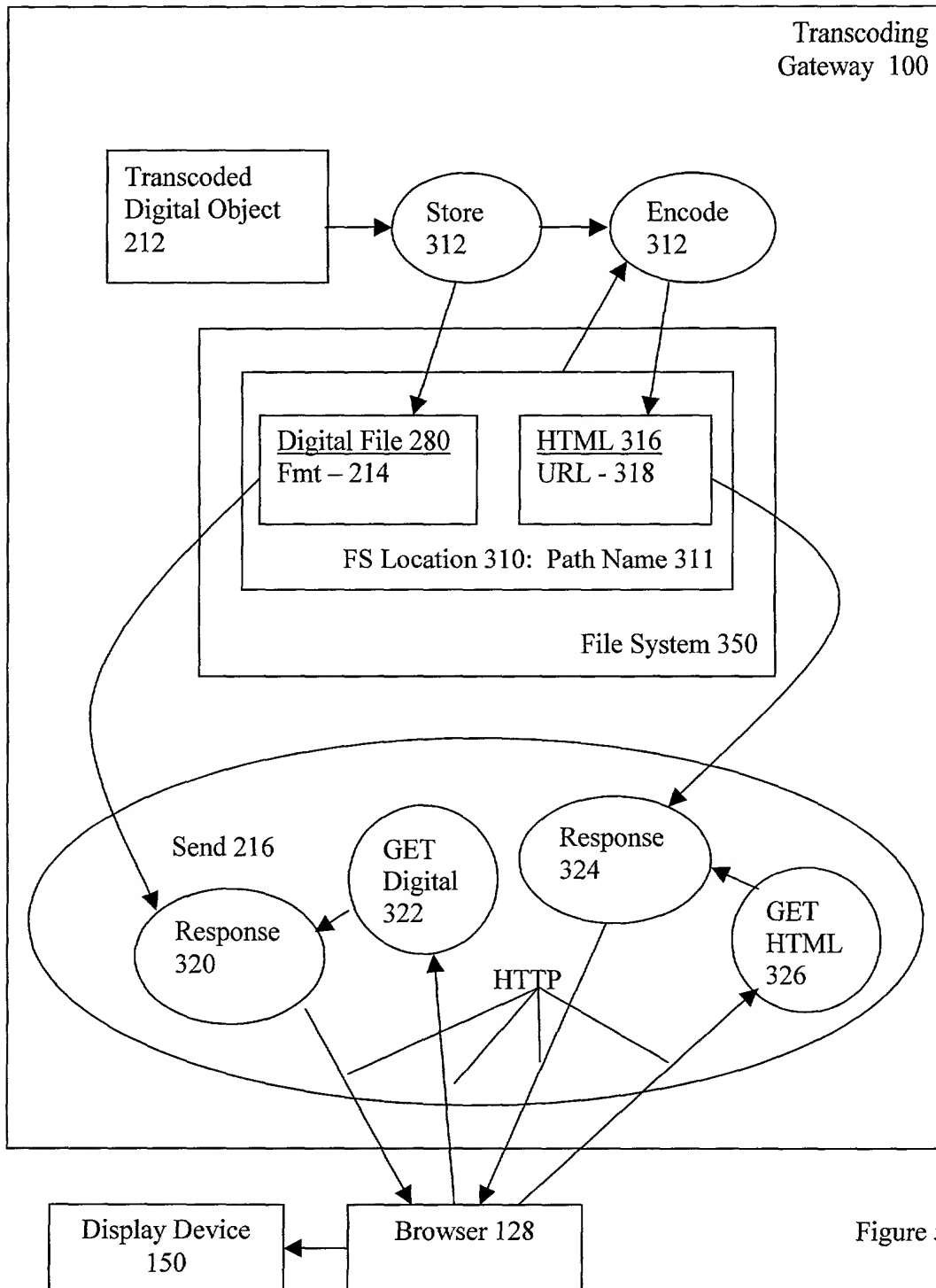


Figure 5

Display Device Record 220

224 Display Format Type = 'JPEG'

502 Display Device Type = 'PDA'

504 Screen Size = '240x360'

506 Color Available = 'No'

Figure 6

Display Device Record 220

224 Display Format Type = 'TTS'

502 Display Device Type = 'TTS Converter'

508 Volume Level = '5'

510 Speed = '100'

512 Pitch = '5'

Figure 7

Display Device Record 220

224 Display Format Type = 'TextOverlay'

502 Display Device Type = 'Overlay Driver'

802 Row = '5'

804 Column = '10'

Figure 8

Display Device Record 220

224 Display Format Type = 'MPEG'

502 Display Device Type = 'Video Display'

902 MaxFrameRate = '32'

Figure 9

Display Device Record 220

224 Display Format Type = 'MP3'

502 Display Device Type = 'Audio Player'

Figure 10

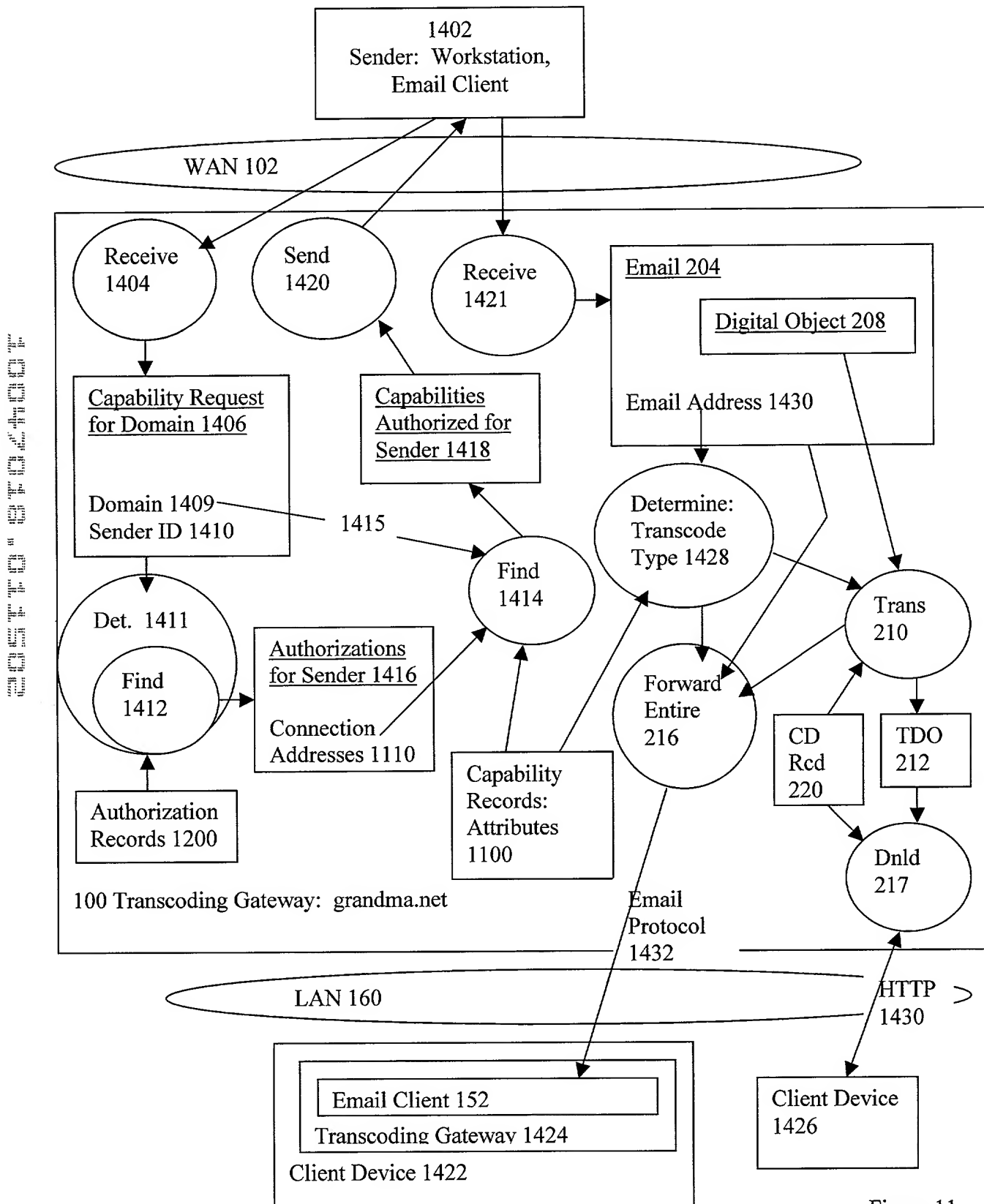


Figure 11

Display Capability Records 1100					
Capability ID 1102	Capability Description 1104	Domain 1106	Connection Type 1108	Connection Address 1110	Transcode Type 1111
1150	Video on Grandma's PC	grandma.net	Email	grandma@ grandma.net	Forward
1152	Audio on Grandma's PC	grandma.net	Email	grandma@ grandma.net	Forward
1154	Video on Grandma's TV	grandma.net	Email	gm-tv@ grandma.net	Forward
1156	Audio on Grandma's TV	grandma.net	Email	gm-tv@ grandma.net	Forward
1158	TTS in Grandma's Car	grandma.net	Email	gm-car@ grandma.net	Forward
1160	Recipe Database on Grandma's Kitchen Stove	grandma.net	Email	recipes@ grandma.net	Forward
1162	Image on Grandma's PDA	grandma.net	Email	gm-PDA@ grandma.net	Forward
1164	Image on DAF in Grandma's Living Room	grandma.net	HTTP	gm-daf@ grandma.net	Transcode Here & Forward
1166	Text Overlay on DAF in Grandma's Living Room	grandma.net	HTTP	gm-daf@ grandma.net	Transcode Here & Forward
1168	Audio on Grandma's Stereo	grandma.net	HTTP	gm-stereo@ grandma.net	Transcode Here
1170	Video Somewhere Else	someother.net	Email	x@someother. net	Forward
1172	Audio Player Coupled To This Gateway	someother.net	HTTP	y@someother. net	Transcode Here & Forward
1174	TTS Somewhere Else	someother.net	Email	z@someother. net	Forward

Figure 12

Sender Authorization Records 1200		
Domain: grandma.net		
Authorization Record ID 1202	Connection Address 1110	Authorized Sender 1204
1250	grandma@grandma.net	joe@grandson.net
1252	gm-tv.@grandma.net	joe@grandson.net
1254	gm-daf@grandma.net	joe@grandson.net
1256	gm-car@grandma.net	joe@grandson.net
1258	grandma@grandma.net	mike@soninlaw.net
1260	grandma@grandma.net	pete@favoritenephew.net
1262	gm-tv.@grandma.net	pete@favoritenephew.net
1264	gm-daf@grandma.net	pete@favoritenephew.net
1268	gm-car@grandma.net	pete@favoritenephew.net
1270	gm-PDA@grandma.net	pete@favoritenephew.net
1272	recipes@grandma.net	pete@favoritenephew.net

Figure 13

Authorized Display Capabilities at grandma.net for joe@grandson.net
Video on Grandma's PC (grandma@grandma.net) Audio on Grandma's PC (grandma@grandma.net) Video on Grandma's TV (gm-tv.@grandma.net) Image on DAF in Grandma's Living Room (gm-daf@grandma.net) TTS in Grandma's Car (gm-car@grandma.net)
<div>Okay</div>

Figure 14

Virtual Address Forwarding Records - 1500		
Virtual Address Forwarding Record ID -1502	Virtual Address 1504	Corresponding Conventional Forwarding Address 1506
1550	gm-daf@grandma.net	grandma@grandma.net
1552	gm-stereo@grandma.net	
1554	y@someother.net	z@someother.net

Figure 15

The diagram illustrates an email interface with the following components and labels:

- 1600**: Points to the overall email header area.
- To:** The recipient field, containing the address `grandma@grandma.net`.
- 1616**: Points to a small square icon next to the 'To' address.
- 1618**: Points to the 'To' address text itself.
- 1602**: Points to the input field for the 'To' address.
- Cc:** The carbon copy field, currently empty.
- 1604**: Points to the input field for the 'Cc' address.
- Subject:** The subject line field, currently empty.
- 1608**: Points to the input field for the subject line.
- 1612**: Points to a row of five buttons. The third button from the left is labeled **Capabilities Button - 1610**.
- 1614**: Points to a large rectangular area below the buttons, likely for the email body or attachments.

Figure 16

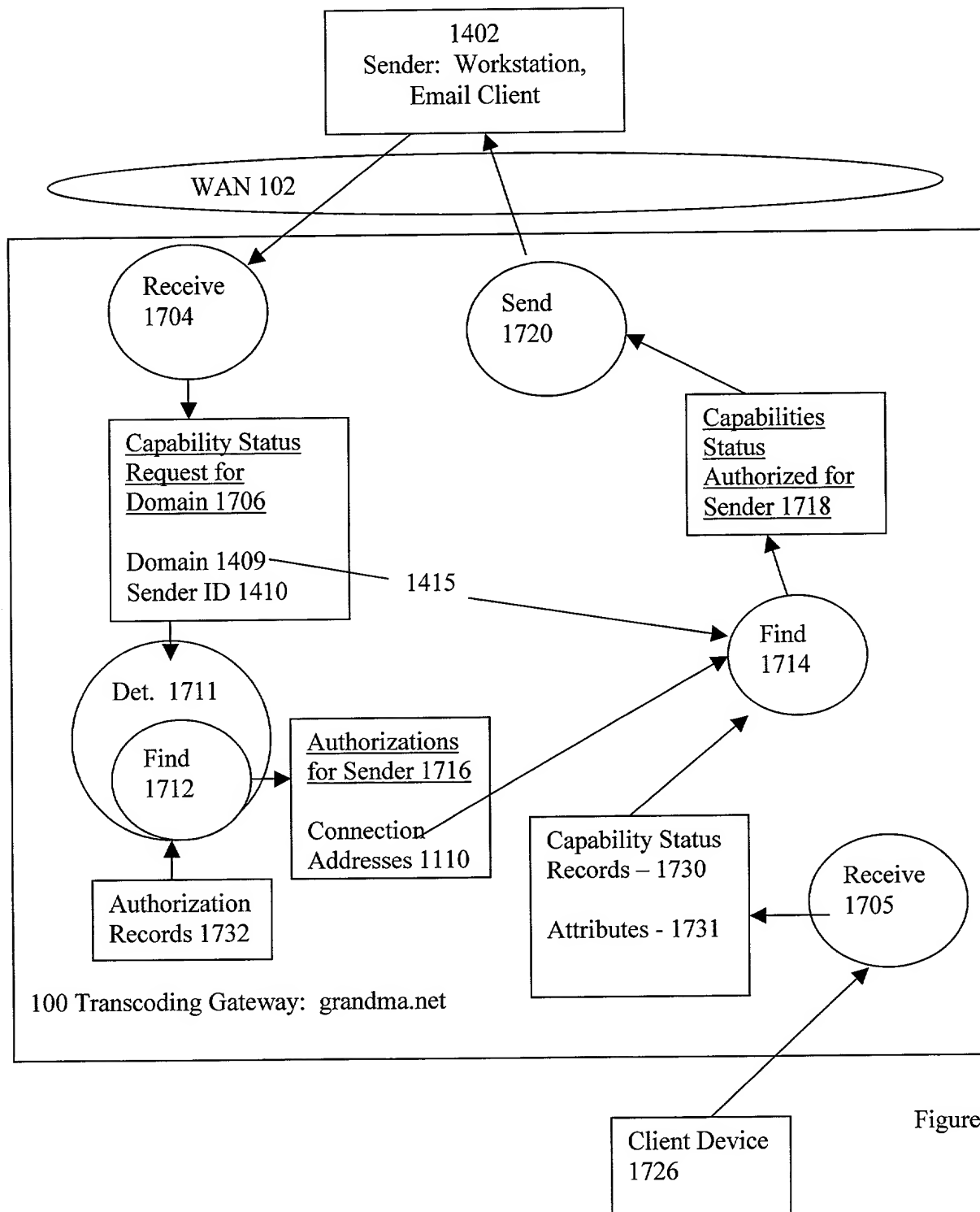


Figure 17

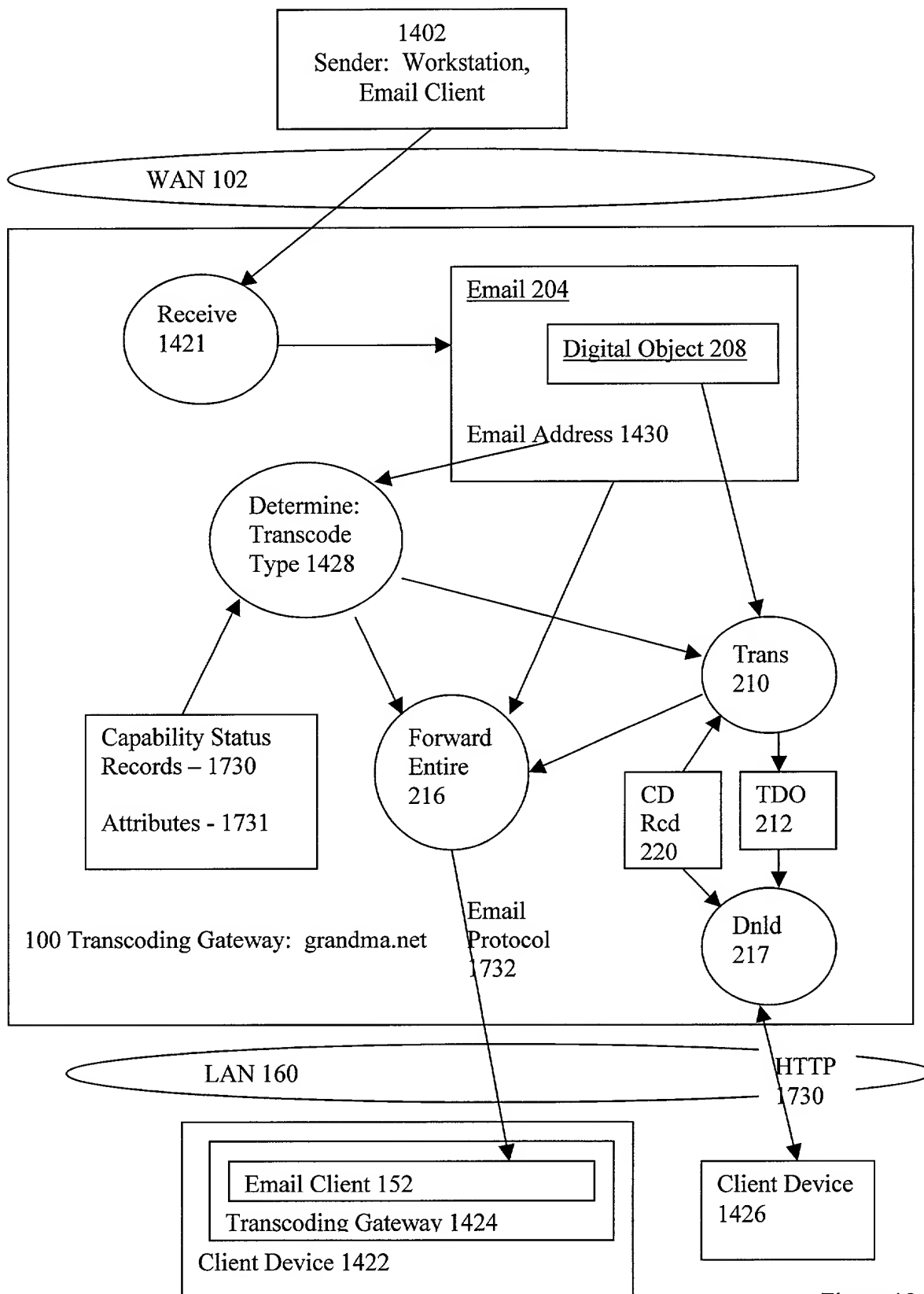


Figure 18

Display Capability Status Records - 1730						
Domain: grandma.net - 1409						
Capability ID 1102	Capability Description 1104	Status: Availability 1904	Status: Recent Usage 1906	Connect Type 1108	Connection Address 1110	Transcode Type 1111
1950	Video on Grandma's PC	Off	Yesterday	Email	grandma@grandma.net	Forward
1952	Audio on Grandma's PC	Off	Yesterday	Email	grandma@grandma.net	Forward
1954	Video on Grandma's TV	On	Last Week	Email	gm-tv@grandma.net	Forward
1956	Audio on Grandma's TV	On	Last Week	Email	gm-tv@grandma.net	Forward
1958	TTS in Grandma's Car	On	Yesterday	Email	gm-car@grandma.net	Forward
1960	Recipe Database on Grandma's Kitchen Stove	On	Last Week	Email	recipes@grandma.net	Forward
1962	Image on Grandma's PDA	On	Today 3 Minutes Ago	Email	gm-PDA@grandma.net	Forward
1964	Image on DAF in Grandma's Living Room	On	Yesterday	HTTP	gm-daf@grandma.net	Transcode Here & Forward
1966	Text Overlay on DAF in Grandma's Living Room	On	Yesterday	HTTP	gm-daf@grandma.net	Transcode Here & Forward
1968	Audio on Grandma's Stereo	Off	Yesterday	HTTP	gm-stereo@grandma.net	Transcode Here

Figure 19

Sender Authorization Records - 2002		
Domain: grandma.net		
Authorization Record ID 1202	Connection Address 1110	Authorized Sender 1204
2050	grandma@grandma.net	joe@grandson.net
2052	gm-PDA.@grandma.net	joe@grandson.net
2054	gm-daf@grandma.net	joe@grandson.net
2056	gm-car@grandma.net	joe@grandson.net
2058	grandma@grandma.net	mike@soninlaw.net
2060	grandma@grandma.net	pete@favoritenephew.net
2062	gm-tv.@grandma.net	pete@favoritenephew.net
2064	gm-daf@grandma.net	pete@favoritenephew.net
2068	gm-car@grandma.net	pete@favoritenephew.net
2070	gm-PDA@grandma.net	pete@favoritenephew.net
2072	recipes@grandma.net	pete@favoritenephew.net

Figure 20

Authorized Display Capabilities Statuses at grandma.net for joe@grandson.net
<p>Video on Grandma's PC (grandma@grandma.net) – Off – Last Used Yesterday</p> <p>Audio on Grandma's PC (grandma@grandma.net) – Off – Last Used Yesterday</p> <p>Image on Grandma's PDA (gm-PDA@grandma.net) – On – Last Used 3 Minutes Ago</p> <p>Image on DAF in Grandma's Living Room (gm-daf@grandma.net) – On – Last Used Yesterday</p> <p>Text Overlay on DAF in Grandma's Living Room (gm-daf@grandma.net) – On – Last Used Yesterday</p> <p>TTS in Grandma's Car (gm-car@grandma.net) – On – Last Used Yesterday</p>
<div>Okay</div>

Figure 21

Virtual Address Forwarding Records - 1500		
Virtual Address Forwarding Record ID -1502	Virtual Address 1504	Corresponding Conventional Forwarding Address 1506
1550	gm-daf@grandma.net	grandma@grandma.net
1552	gm-stereo@grandma.net	
1554	y@someother.net	z@someother.net

Figure 22

The diagram illustrates an email interface. At the top, a label 1600 points to the entire interface area. Below it, the 'To:' field contains the email address 'grandma@grandma.net', with a label 1602 pointing to the text. A label 1616 points to a small square icon next to the email address. Below the 'To:' field is the 'Cc:' field, with a label 1604 pointing to its input area. Below the 'Cc:' field is the 'Subject:' field, with a label 1608 pointing to its input area. Below the 'Subject:' field is a row of five buttons, with a label 1612 pointing to the entire row. The middle button in this row is labeled 'Status Button - 2302'. Below the row of buttons is a large rectangular area, with a label 1614 pointing to it. A label 1618 points to the 'To:' field area.

Figure 23

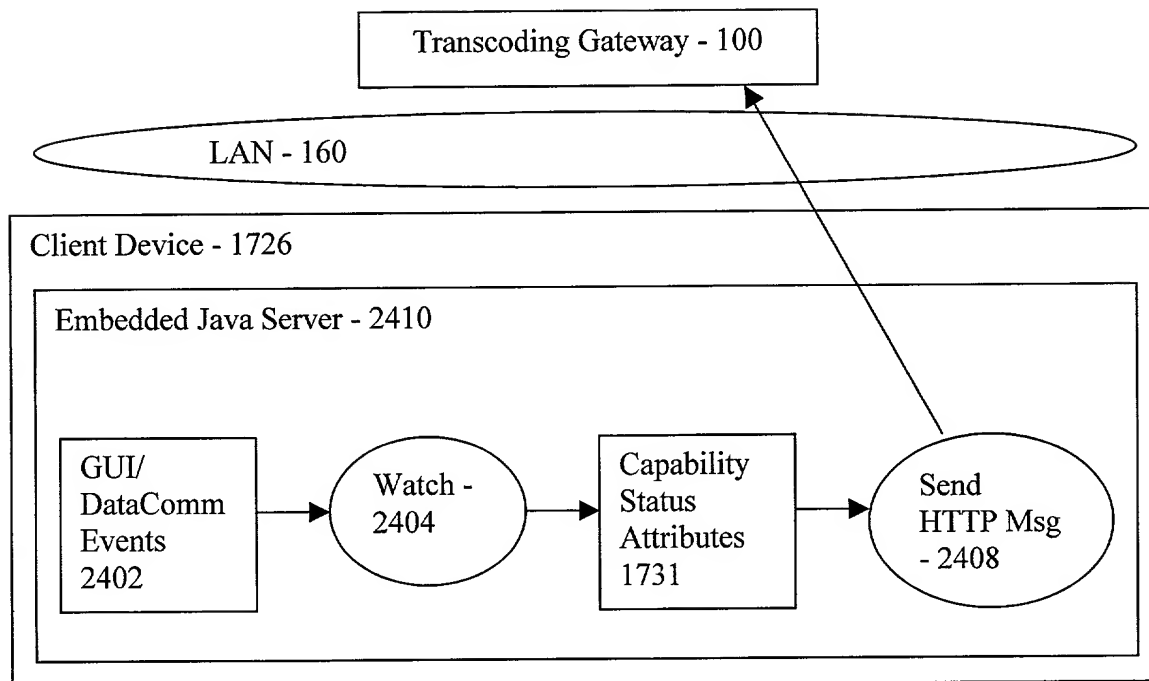


Figure 24

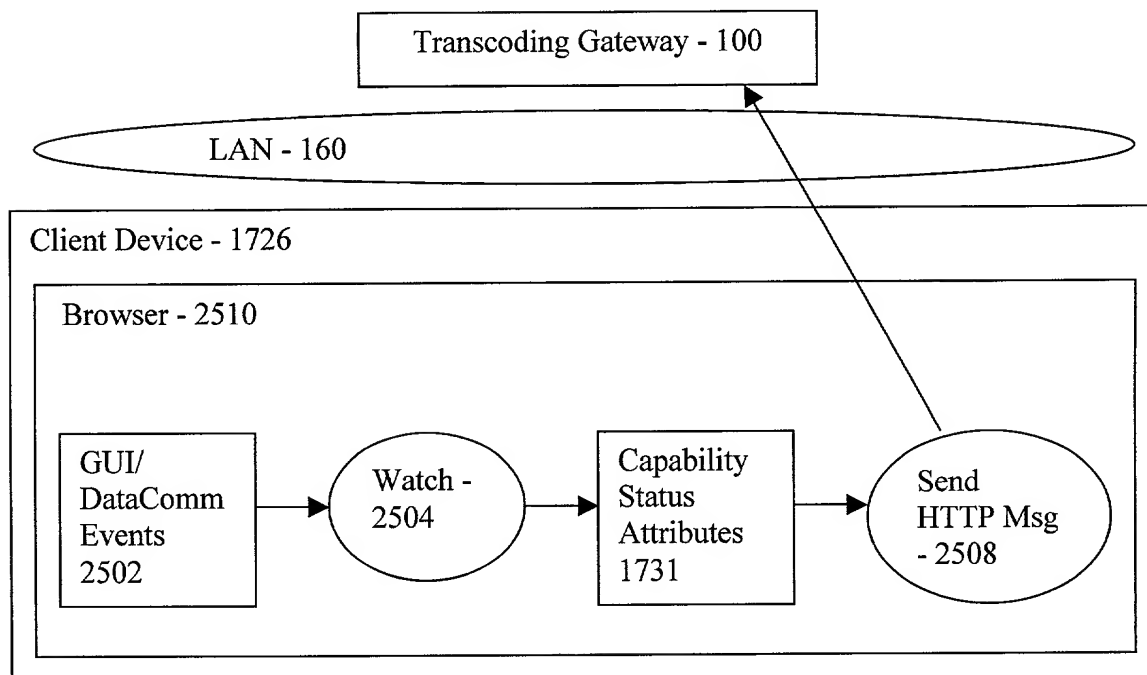


Figure 25

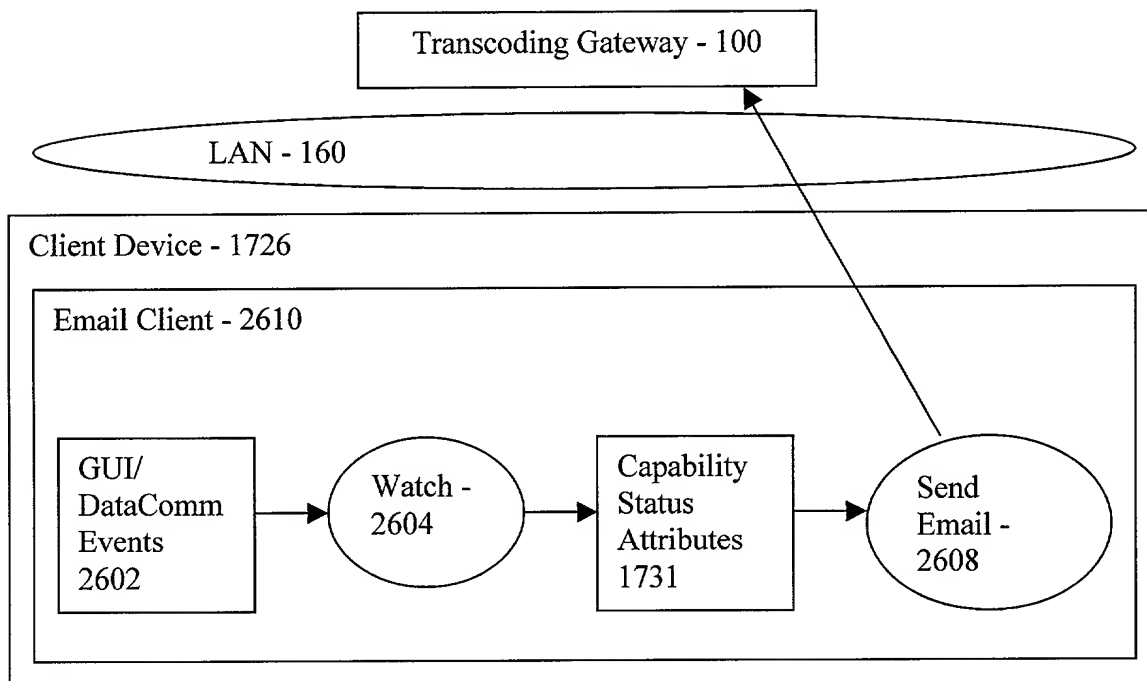


Figure 26

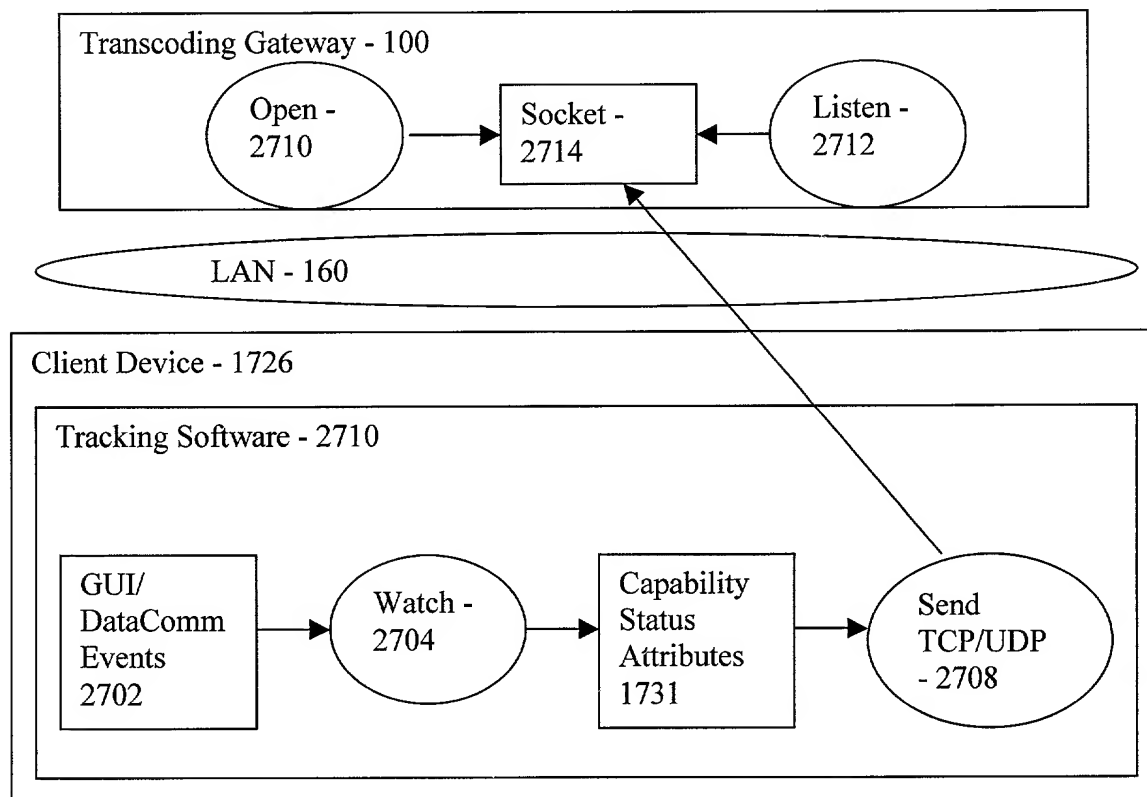


Figure 27